



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

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D412-664-203TRN
Job Sheet 173473



Part No: D412-664-203TRN

Job Qty: 1 ea

Part Name: Crosstube Turning Detail



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/2/18

Job Tracking No:

Due Date: 3/23/18

Created By: Michelle Gagnon-Donovan

Type: Stock

Description:

Note: DWG REV F IPP Rev:A 08-03-06 new issue DD verified by:eec IPP Rev B 08.04.02 Removed polish EC verified by: DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	3/22/18	3/22/18	0.00	0.00	Start Up Crosstubes-2		MD
100	Mori Seiki	1 pcs	3/22/18	3/22/18	3.21	1.33	Mori Seiki TL-40		MD
110	QC	1 pcs	3/22/18	3/22/18	0.00	0.00	QC2-3		MD
120	Mori Seiki	1 pcs	3/22/18	3/22/18	0.00	1.67	Mori Seiki TL-40		MD
130	QC	1 pcs	3/22/18	3/22/18	0.00	0.00	QC2-3		MD
140	QC	1 pcs	3/22/18	3/22/18	0.00	0.00	QC8		MD
145	Crosstubes	1 pcs	3/22/18	3/22/18	0.00	0.25	Crosstubes-2		MD
150	HandFXtube	1 pcs	3/23/18	3/23/18	0.00	0.92	HandFinish5		MD
160	QC	1 pcs	3/23/18	3/23/18	0.00	0.00	QC7-3		MD
170	Packaging	1 pcs	3/23/18	3/23/18	0.00	0.00	Packaging3-2		MD
180	QC21-SA	1 Ea	3/23/18	3/23/18	0.00	0.00	QC21		MD

Part Op 100 - 1-Fill tube with sand & install plugs 412-203 on both ends as per Folio FA166 2-Face both sides of tube 3-Turn first Descriptions: taper section on both side as per Folio FA166 4- blend transition lines using belt sander with 60 grit sandpaper
120 - 1-Turn second taper on both sides as per Folio FA166 2- Blend transition lines using belt sander with 60 grit sandpaper. 3- Remove sand and plugs 4-Scribe part # and batch # using vibrating stylus
145 - GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.
150 - 1- handfinish X-TUBE INSIDE AND OUT
170 - LOCATION : LG014

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D6009-129	Crosstube Material	1 Ea (1 ea)	90-Start up Operation	

8123472

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D6009-129	1	103	0

Part Specifications

Specifications could not be found.

Plex 3/2/18 9:54 AM Dart.Gagnon.Michelle



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CANADA
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Container No: S083093



Part: D412-664-203TRN

Job No: 173473

Serial No/Batch: S083093

Revision: F

Inspector:

Exp Date:

Instructions:

Date: 06/21/18

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DART AEROSPACE LTD	Work Order:	173473
Description: Crosstube Assembly (412 High Aft)	Part Number:	D412-664-243
Inspection Dwg: D412-664-243 Rev: F		Page 1 of 2

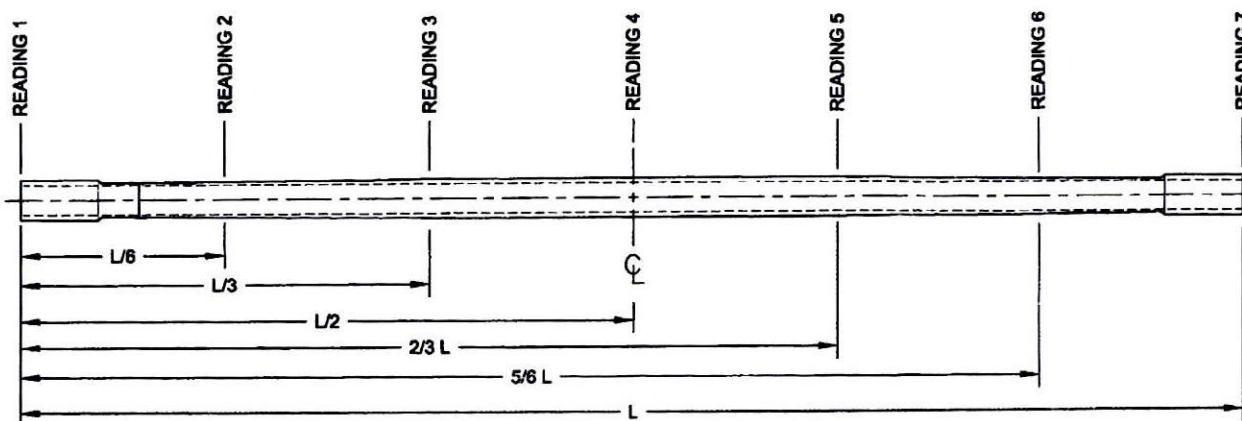
FIRST ARTICLE INSPECTION CHECKLIST

	Inspection Sheet Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
SIDE A	2.684	+0.005/-0.000	2.688	✓		BLM3" 04	
	2.748	+0.005/-0.000	2.753	✓		"	
	2.884	+0.005/-0.000	2.888	✓		"	
	3.019	+0.005/-0.000	3.024	✓		BLM4" 05	
	3.163	+0.005/-0.000	3.166	✓		BLM4" 05	
	3.308	+0.005/-0.000	3.313	✓		BLM4" 05	
	3.429	+0.005/-0.000	3.434	✓		BLM4" 05	
	2.990	+0.005/-0.000	2.993	✓		BLM3" 04	
	2.618	+0.005/-0.000	2.622	✓		"	
	0.200	+/-0.010	.1995	✓		Vern 08	
	R0.063	+/-0.010	.063	✓		RG	
	R0.500	+/-0.010	.500	✓		RG	
	4.971	+/-0.030	4.973	✓		Vern 08	
SIDE B	2.684	+0.005/-0.000	2.689	✓		BLM3" 04	
	2.748	+0.005/-0.000	2.753	✓		"	
	2.884	+0.005/-0.000	2.889	✓		"	
	3.019	+0.005/-0.000	3.024	✓		BLM4" 05	
	3.163	+0.005/-0.000	3.166	✓		BLM4" 05	
	3.308	+0.005/-0.000	3.313	✓		BLM4" 05	
	3.429	+0.005/-0.000	3.434	✓		BLM4" 05	
	2.990	+0.005/-0.000	2.993	✓		BLM3" 04	
	2.618	+0.005/-0.000	2.623	✓		"	
	0.200	+/-0.010	.1975	✓		Vern 08	
	R0.063	+/-0.010	.063	✓		RG	
	R0.500	+/-0.010	.500	✓		RG	
	4.971	+/-0.030	4.975	✓		Vern 08	
	124.100	+/-0.020	124.100	✓		Tape	

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DART AEROSPACE LTD	Work Order: 173473
Description: Crosstube Assembly (412 High Aft)	Part Number: D412-664-243
Inspection Dwg: D412-664-243 Rev: F	Page 2 of 2

WALL THICKNESS MEASUREMENT



Location	WALL THICKNESS MEASUREMENT (IN)				Deviation Δw (max-min)	TOLERANCE
	w1	w2	w3	w4		
READING 1 L = 0"	.353	.379	.368	.343	.036	0.073"
READING 2 L = 20.683	.301	.311	.301	.287	.024	
READING 3 L = 41.367	.460	.486	.477	.449	.037	
READING 4 L = 62.050	.624	.635	.629	.610	.025	
READING 5 L = 82.733	.478	.500	.479	.456	.044	
READING 6 L = 103.417	.294	.333	.308	.268	.065	
READING 7 L = 124.100	.375	.393	.351	.328	.065	

Calibration Result

Actual Block Thickness: 100-750

Sitescan 250 Measured Thickness: 100-750

Measured by: M.D.	DAS 56 9-89
Date: 2018-06-21	

Audited by: G2 15	
Date: 18-06-29	

Preliminary Approval:	
Date:	

Rev	Date	Change	Revised by	Approved
A	04.06.16	New Issue (P/O D412-664-203)	KJ/JLM	
B	06.03.09	Dwg Rev updated	KJ/JLM	
C	07.05.08	Tolerance updated for dimension 4.971	KJ/JLM	
D	10.02.02	Dimension 124.100 was 124.09	KJ	
E	12.06.04	Wall thickness form added	KJ	
F	14.06.24	Dwg Rev updated	KJ	

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ENGINEERING

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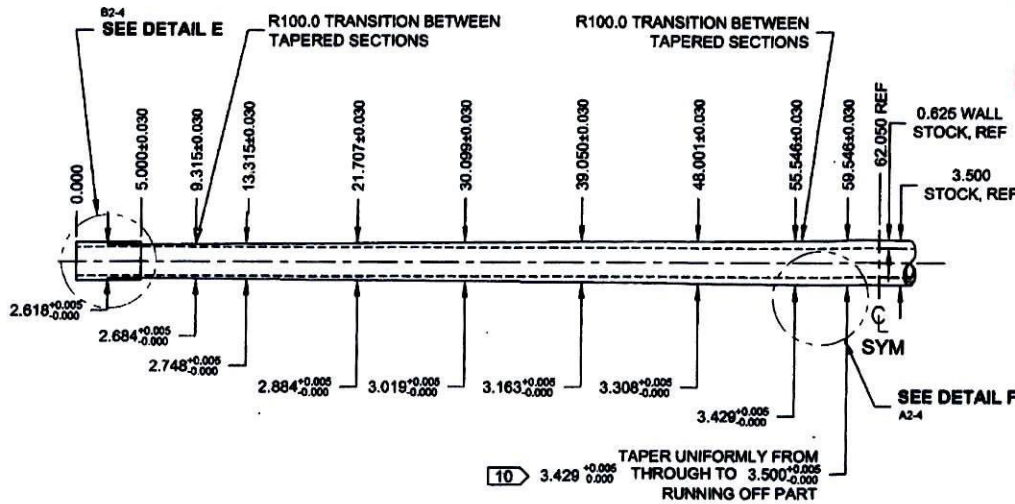
SUBJECT TO AMENDMENT

WITHOUT NOTICE

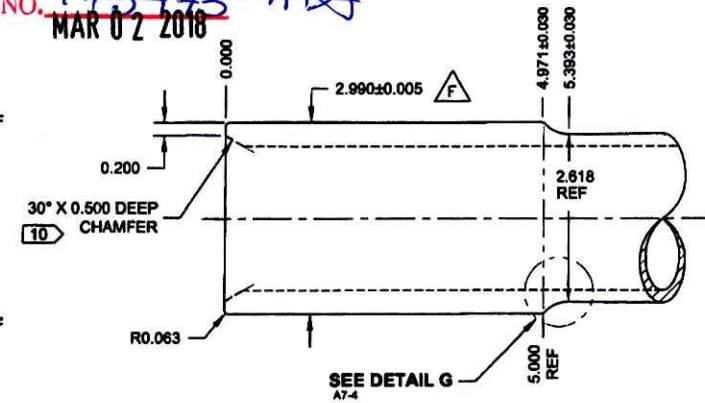
WORK ORDER

NO. 173473

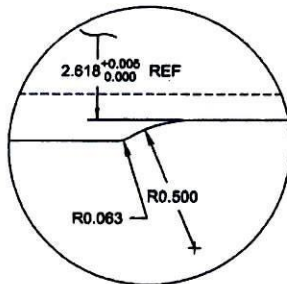
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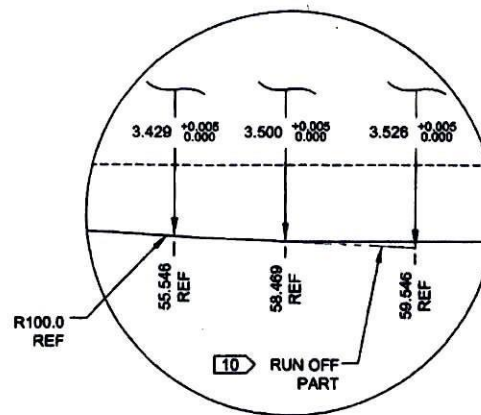
D412-664-243TRN
TURNING DETAIL



DETAIL E:
CROSSTUBE CUFF
SCALE 5X D8-4



DETAIL G:
CUFF TRANSITION
SCALE 10X C2-4



DETAIL F:
TAPER RUN-OFF
NOT TO SCALE C4-4

RELEASED
2014-05-26

DESIGN	92	DART AEROSPACE LTD	
DRAWN	92	HAWKESBURY, ONTARIO, CANADA	
CHECKED	92	DRAWING NO.	REV. F
MFG. APPR.	92	D412-664-243	SHEET 4 OF 4
APPROVED	92	TITLE	SCALE
DE APPR.	92	CROSSTUBE ASSEMBLY (412 HI AFT)	NTS
DATE	14.04.01	COPYRIGHT © 2001 BY DART AEROSPACE LTD	
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